

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (canceled)

1 Claim 2 (currently amended): The apparatus of claim 53 +  
2 wherein the pipette tip is formed of a collapsible  
3 material.

1 Claim 3 (currently amended): The apparatus of claim 53 +  
2 wherein the pipette tip is formed of a flexible and  
3 collapsible material.

1 Claim 4 (currently amended): An apparatus for preparing a  
2 fluid sample, the apparatus comprising:

3 a) a first part including

4 i) a pipette tip having an open tip end, and

5 ii) a sample cup, fluidly coupled with the  
6 pipette tip and having an open end; and

7 b) a second part including

8 i) a channel for receiving the pipette tip of  
9 the first part,

10 ii) a support for accommodating at least a  
11 portion of the sample cup of the first part, and

12 iii) a constricted passage, arranged between the  
13 channel and the support, for collapsing the  
14 pipette tip of the first part as the first part  
15 is inserted into the second part,

16 ~~The apparatus of claim 1~~ wherein the pipette tip of the  
17 first part and the constricted passage of the second part  
18 are designed such that, as the pipette tip passes through

19 the constricted passage, walls defining the pipette tip  
20 collapse inwardly and form a liquid seal.

1 Claim 5 (currently amended): The apparatus of claim 53 ±  
2 wherein a length of the channel of the second part is at  
3 least as long as a length of the pipette tip of the first  
4 part.

1 Claim 6 (currently amended): The apparatus of claim 53 ±  
2 wherein the open end of the sample cup of the first part is  
3 dimensioned to mate with an automated pipetting system.

1 Claim 7 (currently amended): The apparatus of claim 53 ±  
2 wherein the support of the second part is shaped to match a  
3 bottom of the sample cup of the first part.

1 Claim 8 (currently amended): The apparatus of claim 53 ±  
2 wherein the support of the second part is shaped to guide  
3 the pipette tip of the first part to the constricted  
4 passage of the second part as the first part is inserted  
5 into the second part.

1 Claim 9 (currently amended): An apparatus for preparing a  
2 fluid sample, the apparatus comprising:

- 3     a) a first part including  
4         i) a pipette tip having an open tip end, and  
5         ii) a sample cup, fluidly coupled with the  
6         pipette tip and having an open end; and  
7     b) a second part including  
8         i) a channel for receiving the pipette tip of  
9         the first part,

10            ii) a support for accommodating at least a  
11            portion of the sample cup of the first part, and  
12            iii) a constricted passage, arranged between the  
13            channel and the support, for collapsing the  
14            pipette tip of the first part as the first part  
15            is inserted into the second part,  
16 ~~The apparatus of claim 1~~ wherein the support of the second  
17 part is shaped as a funnel.

1 Claim 10 (currently amended): An apparatus for preparing a  
2 fluid sample, the apparatus comprising:  
3        a) a first part including  
4            i) a pipette tip having an open tip end, and  
5            ii) a sample cup, fluidly coupled with the  
6            pipette tip and having an open end; and  
7        b) a second part including  
8            i) a channel for receiving the pipette tip of  
9            the first part,  
10           ii) a support for accommodating at least a  
11           portion of the sample cup of the first part, and  
12           iii) a constricted passage, arranged between the  
13           channel and the support, for collapsing the  
14           pipette tip of the first part as the first part  
15           is inserted into the second part,  
16 ~~The apparatus of claim 1~~ wherein the support of the second  
17 part is tapered.

1 Claim 53 (currently amended): An apparatus for preparing a  
2 fluid sample, the apparatus comprising:  
3        a) a first part including  
4            i) a pipette tip having an open tip end, and

- 5            ii) a sample cup, fluidly coupled with the  
6            pipette tip and having an open end; and  
7        b) a second part including  
8            i) a channel for receiving the pipette tip of  
9            the first part,  
10           ii) a support for accommodating at least a  
11           portion of the sample cup of the first part, and  
12           iii) a constricted passage, arranged between the  
13           channel and the support, for collapsing the  
14           pipette tip of the first part as the first part  
15           is inserted into the second part,

16 ~~The apparatus of claim 1 wherein the pipette tip is~~  
17 ~~tapered.~~

1 Claim 54 (currently amended): An apparatus for preparing a  
2 fluid sample, the apparatus comprising:

- 3        a) a first part including  
4           i) a pipette tip having an open tip end, and  
5           ii) a sample cup, fluidly coupled with the  
6           pipette tip and having an open end; and  
7        b) a second part including  
8           i) a channel for receiving the pipette tip of  
9           the first part,  
10           ii) a support for accommodating at least a  
11           portion of the sample cup of the first part, and  
12           iii) a constricted passage, arranged between the  
13           channel and the support, for collapsing the  
14           pipette tip of the first part as the first part  
15           is inserted into the second part,

16 ~~The apparatus of claim 1 wherein the constricted passage~~  
17 ~~has a fixed cross section.~~

1 Claim 55 (currently amended): An apparatus for preparing a  
2 fluid sample, the apparatus comprising:

3 a) a first part including

4 i) a pipette tip having an open tip end, and

5 ii) a sample cup, fluidly coupled with the  
6 pipette tip and having an open end; and

7 b) a second part including

8 i) a channel for receiving the pipette tip of  
9 the first part,

10 ii) a support for accommodating at least a  
11 portion of the sample cup of the first part, and

12 iii) a constricted passage, arranged between the  
13 channel and the support, for collapsing the  
14 pipette tip of the first part as the first part  
15 is inserted into the second part,

16 ~~The apparatus of claim 1~~ wherein the pipette tip of the  
17 first part and the constricted passage of the second part  
18 are designed such that, as the pipette tip passes through  
19 the constricted passage, walls defining the pipette tip  
20 collapse inwardly and form a liquid seal such that liquid  
21 in the pipette tip of the first part is forced upward into  
22 the sample cup of the first part.

1 Claim 56 (currently amended): An apparatus for preparing a  
2 fluid sample, the apparatus comprising:

3 a) a first part including

4 i) a pipette tip having an open tip end, and

5 ii) a sample cup, fluidly coupled with the  
6 pipette tip and having an open end; and

7 b) a second part including

8 i) a channel for receiving the pipette tip of  
9 the first part,

10            ii) a support for accommodating at least a  
11            portion of the sample cup of the first part, and  
12            iii) a constricted passage, arranged between the  
13            channel and the support, for collapsing the  
14            pipette tip of the first part as the first part  
15            is inserted into the second part,

16 ~~The apparatus of claim 1~~ wherein the pipette tip of the  
17 first part and the constricted passage of the second part  
18 are designed such that, as the pipette tip passes through  
19 the constricted passage, walls defining the pipette tip  
20 collapse inwardly and form a moving liquid seal such that  
21 the moving liquid seal progresses up the pipette tip as the  
22 pipette tip passes through the constricted passage.

1    Claim 57 (currently amended): An apparatus for preparing a  
2    fluid sample, the apparatus comprising:

3            a) a first part including  
4                i) a pipette tip having an open tip end, and  
5                ii) a sample cup, fluidly coupled with the  
6                pipette tip and having an open end; and  
7            b) a second part including  
8                i) a channel for receiving the pipette tip of  
9                the first part,  
10              ii) a support for accommodating at least a  
11              portion of the sample cup of the first part, and  
12              iii) a constricted passage, arranged between the  
13              channel and the support, for collapsing the  
14              pipette tip of the first part as the first part  
15              is inserted into the second part,

16 ~~The apparatus of claim 1~~ wherein the pipette tip of the  
17 first part and the constricted passage of the second part  
18 are designed such that, as the pipette tip passes through

19 the constricted passage, walls defining the pipette tip  
20 collapse inwardly and form a moving liquid seal such that  
21 the moving liquid seal progresses up the pipette tip as the  
22 pipette tip passes through the constricted passage, wherein  
23 the moving liquid seal forces liquid in the pipette tip  
24 upward into the sample cup.

1 Claim 58 (previously presented): The apparatus of claim 53  
2 wherein the pipette tip of the first part and the  
3 constricted passage of the second part are designed such  
4 that, as the pipette tip passes through the constricted  
5 passage, walls defining the pipette tip collapse inwardly  
6 and form a liquid seal such that liquid in the pipette tip  
7 of the first part is forced upward into the sample cup of  
8 the first part.

1 Claim 59 (previously presented): The apparatus of claim 53  
2 wherein the pipette tip of the first part and the  
3 constricted passage of the second part are designed such  
4 that, as the pipette tip passes through the constricted  
5 passage, walls defining the pipette tip collapse inwardly  
6 and form a moving liquid seal such that the moving liquid  
7 seal progresses up the pipette tip as the pipette tip  
8 passes through the constricted passage.

1 Claim 60 (previously presented): The apparatus of claim 53  
2 wherein the pipette tip of the first part and the  
3 constricted passage of the second part are designed such  
4 that, as the pipette tip passes through the constricted  
5 passage, walls defining the pipette tip collapse inwardly  
6 and form a moving liquid seal such that the moving liquid  
7 seal progresses up the pipette tip as the pipette tip

8 passes through the constricted passage, wherein the moving  
9 liquid seal forces liquid in the pipette tip upward into  
10 the sample cup.

1 Claim 61 (previously presented): The apparatus of claim 54  
2 wherein the pipette tip of the first part and the  
3 constricted passage of the second part are designed such  
4 that, as the pipette tip passes through the constricted  
5 passage, walls defining the pipette tip collapse inwardly  
6 and form a liquid seal such that liquid in the pipette tip  
7 of the first part is forced upward into the sample cup of  
8 the first part.

1 Claim 62 (previously presented): The apparatus of claim 54  
2 wherein the pipette tip of the first part and the  
3 constricted passage of the second part are designed such  
4 that, as the pipette tip passes through the constricted  
5 passage, walls defining the pipette tip collapse inwardly  
6 and form a moving liquid seal such that the moving liquid  
7 seal progresses up the pipette tip as the pipette tip  
8 passes through the constricted passage.

1 Claim 63 (previously presented): The apparatus of claim 54  
2 wherein the pipette tip of the first part and the  
3 constricted passage of the second part are designed such  
4 that, as the pipette tip passes through the constricted  
5 passage, walls defining the pipette tip collapse inwardly  
6 and form a moving liquid seal such that the moving liquid  
7 seal progresses up the pipette tip as the pipette tip  
8 passes through the constricted passage, wherein the moving  
9 liquid seal forces liquid in the pipette tip upward into  
10 the sample cup.



1 Claim 64 (new): The apparatus of claim 54 wherein the  
2 pipette tip is formed of a collapsible material.

1 Claim 65 (new): The apparatus of claim 54 wherein the  
2 pipette tip is formed of a flexible and collapsible  
3 material.

1 Claim 66 (new): The apparatus of claim 54 wherein a length  
2 of the channel of the second part is at least as long as a  
3 length of the pipette tip of the first part.

1 Claim 67 (new): The apparatus of claim 54 wherein the open  
2 end of the sample cup of the first part is dimensioned to  
3 mate with an automated pipetting system.

1 Claim 68 (new): The apparatus of claim 54 wherein the  
2 support of the second part is shaped to match a bottom of  
3 the sample cup of the first part.

1 Claim 69 (new): The apparatus of claim 54 wherein the  
2 support of the second part is shaped to guide the pipette  
3 tip of the first part to the constricted passage of the  
4 second part as the first part is inserted into the second  
5 part.